

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001262**Date Inspected:** 25-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, South Tower Lift #2, OBG 3AW, Cou**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to project documentation

South Tower Lift #2

Internal base metal surfaces were abrasive blasted for VT inspection of fabrication defects and amendment.

Caltrans QA Charlie Franco performed VT operations inside surfaces from 65M-80.75M internal surfaces, grinding operations, arc strikes and MT performed by ZPMC personnel.

OBG 3AW

External surfaces of the counterweight attachment areas received Intercure 200 HS to areas where concrete/grout will embed base metal surfaces.

Counterweight

Counterweight code # CW20 internal surface received final coat of Intercure 200 HS to surfaces to be embedded in concrete/grout.

Suspender Brackets

Pencil hardness testing and dollies for adhesion testing were affixed to Interzinc 22 coated surfaces. Bracket code # : SB14E, SB16E, SB18E, SB20E, SB22E, SB26E. Also "mist" coat of Interfine 979 was applied to repair areas.

OBG 1AAW

Internal and external surfaces were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22

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## SOURCE INSPECTION REPORT

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applied. Profile amplitude was 70-86um. Intercure 200HS was applied to surfaces to be embedded in concrete/grout areas. All re-blasting performed on this date was due from incomplete fabrication previously performed and hence repaired thus destroying the previously applied coating.

### Bikeway Brackets

Bikeway bracket code # BK001-001, BK001-006 & BK001-014 Interfine 979 scheduled for application on 06/23/09 was actually applied on this date. Interfine 979 full topcoat application was performed.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative Peng ZiLi also participated in inspections and was available for consultation.

### Summary of Conversations:

Discussed issues of coatings with SMR Skyler Guest and Jim Simonis and PQWP for application of coatings outside paint shops in trial assembly area and potential contaminants and ambient conditions and adverse effects thereof.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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